

User's Manual

ES2 STREAM 2 SYSTEM



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Safety Overview

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance



WARNING:

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE APPARATUS TO RAIN OR MOISTURE



CAUTION:

TO REDUCE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PART INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and, (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. Damage Requiring service; Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged,
 - b. If liquid has been spilled, or objects have fallen into the apparatus,
 - c. If the apparatus has been exposed to rain or water,
 - d. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
 - e. If the apparatus has been dropped or damaged in any way, and
 - f. When the apparatus exhibits a distinct change in performance; this indicates a need for service.

14. Object and Liquid Entry – Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit.
15. Batteries – Always consider the environmental issues and follow local regulations when disposing of batteries.
16. If you install the apparatus in a built-in installation, such as bookcase or rack, ensure that there is adequate ventilation. Leave 20 cm (8") of free space at the top and sides and 10 cm (4") away from the rear panel or wall, creating a flue like gap for warm air to escape.
17. This device has no mains switch. To disconnect this device from mains supply, the power cord must be disconnected.
18. Only use the enclosed A/C regulator.

System Function

System Function Description

The ES2 Stream 2 system is designed to wirelessly transmit audio source signal from one location to a dedicated wireless audio amplifier. The audio amplifier is then connected to any general purpose loudspeaker.

The ES2 Stream 2 Transmitter is a high performance device that converts the incoming analog line level signal to a digital format that is then broadcast over the 2.4 GHz spectrum. The radio frequency broadcast is digital, uncompressed, CD quality data. The broadcast signal is uniquely formatted so that any ES2 Stream 2 Receiver can receive and convert into useful audio output.

The ES2 Stream 2 All Digital Wireless™ (ADW) Amplifier is an integrated ES2 Stream 2 Receiver and All Digital Amplifier™ system that is designed to link to the ES2 Stream 2 Transmitter, receive the digital audio broadcast and convert it to a signal that drives a local speaker.

The ES2 ADW Amplifier is readily configured to drive a pair of speakers in Stereo mode - Left and Right, or in a Bi-Amp mode - both output channels are configured Left and Left, or Right and Right and in Mono mode - both output channels are summed for Mono and Mono output.

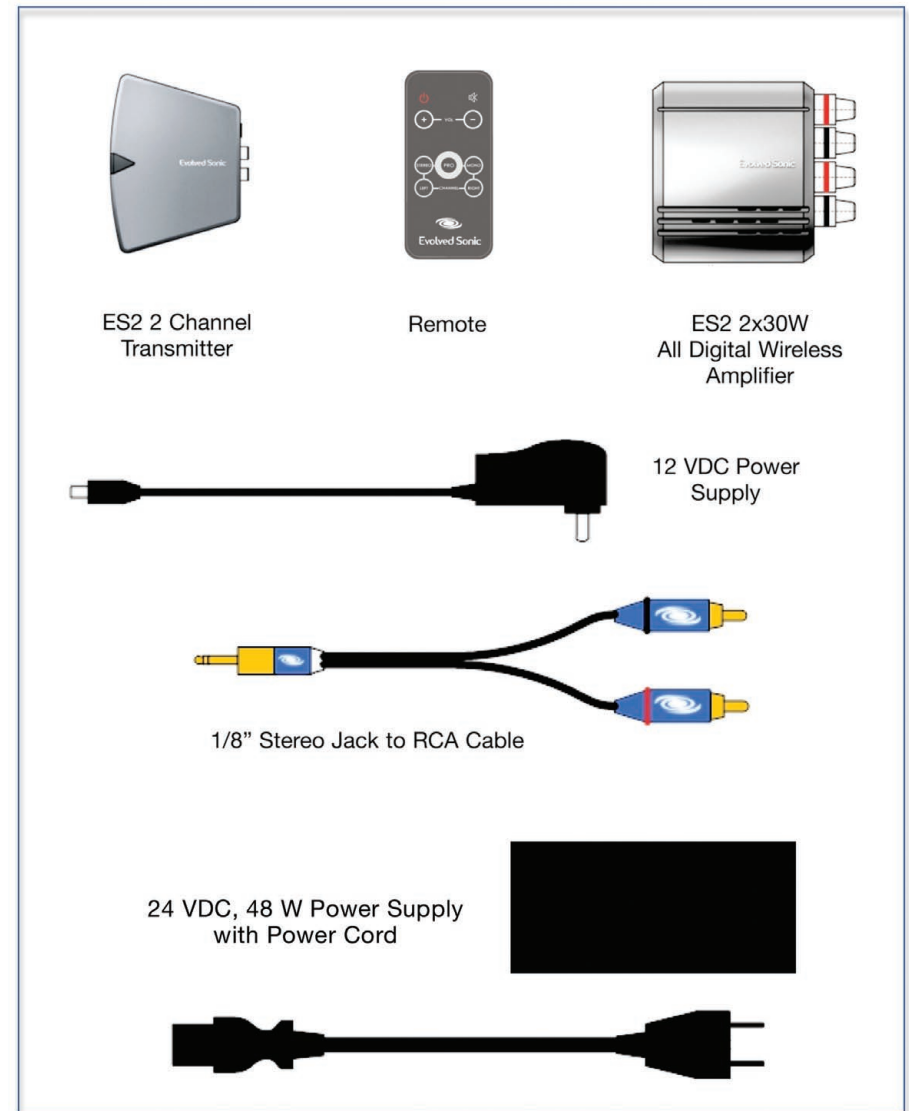
Both the ES2 Transmitter and ADW Amplifier are equipped to operate with 3 different Housecodes. Each Housecode is a unique formatting of the broadcast digital data so that components operating and linked on one Housecode will not receive or interfere with other ES2 components operating on a different Housecode.

The multiple Housecodes permits operation of up to three different zones within the same RF broadcast area.

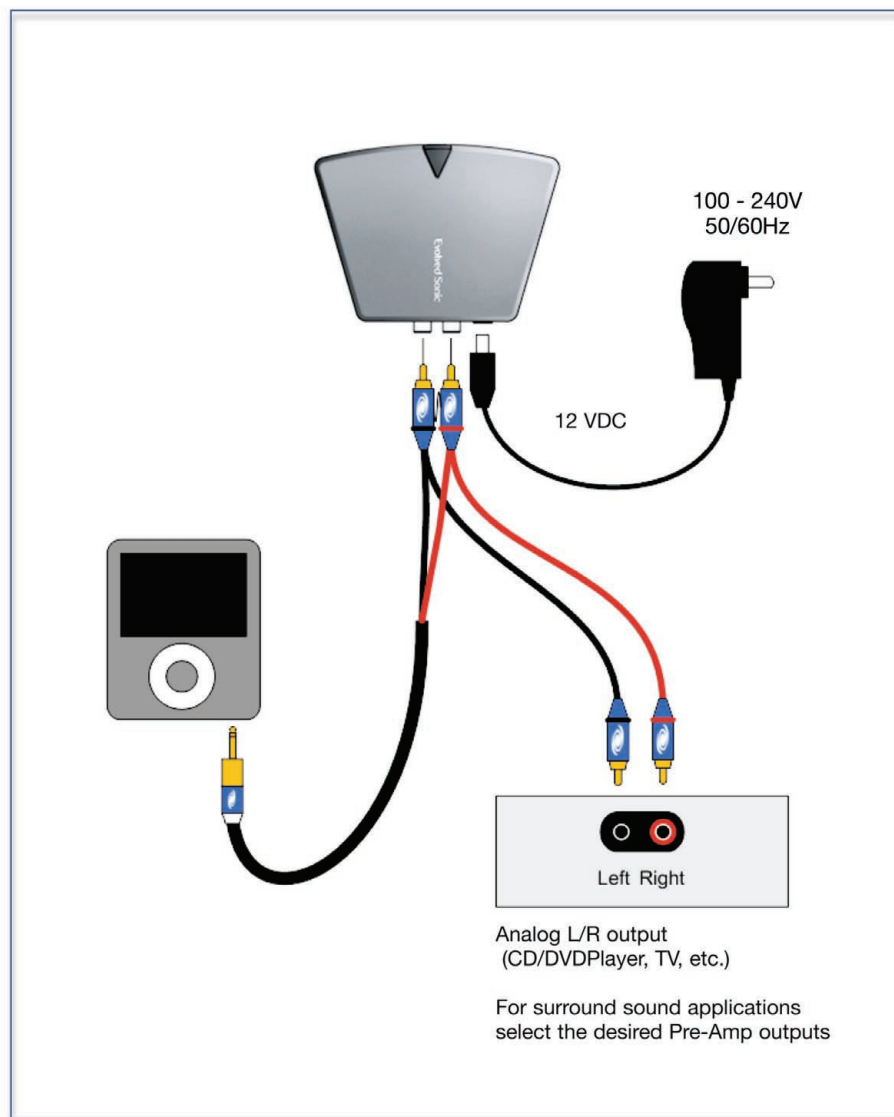
FEATURES

- Lossless, Uncompressed, CD quality streaming audio network, sample rate 48 kHz.
- Dedicated 2.4 GHz streaming audio network, not interfered with by WiFi networks or other 2.4 GHz devices such as cordless phones and microwaves.
- Simple to set-up, plug and play
- No time delay or data drops
- Unlimited linking of ES2 Stream 2 ADW Amplifiers to each ES2 Transmitter

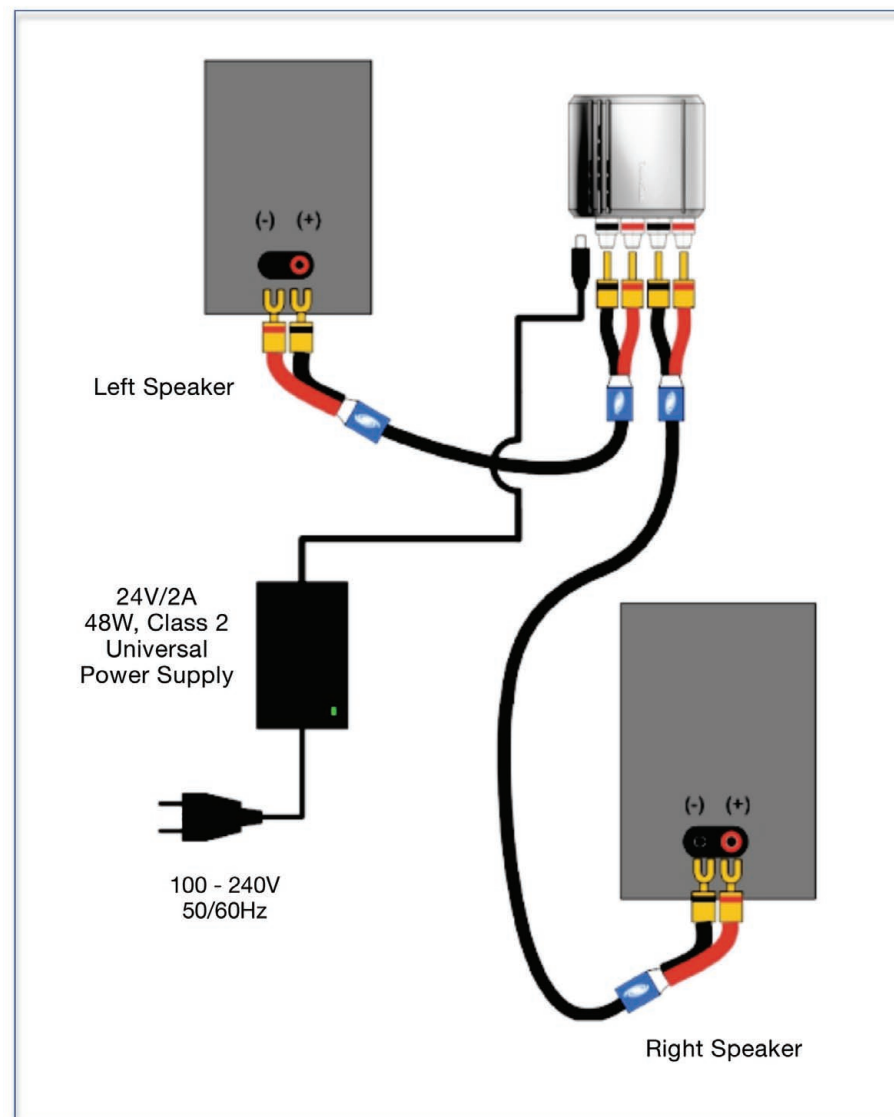
Packing Contents



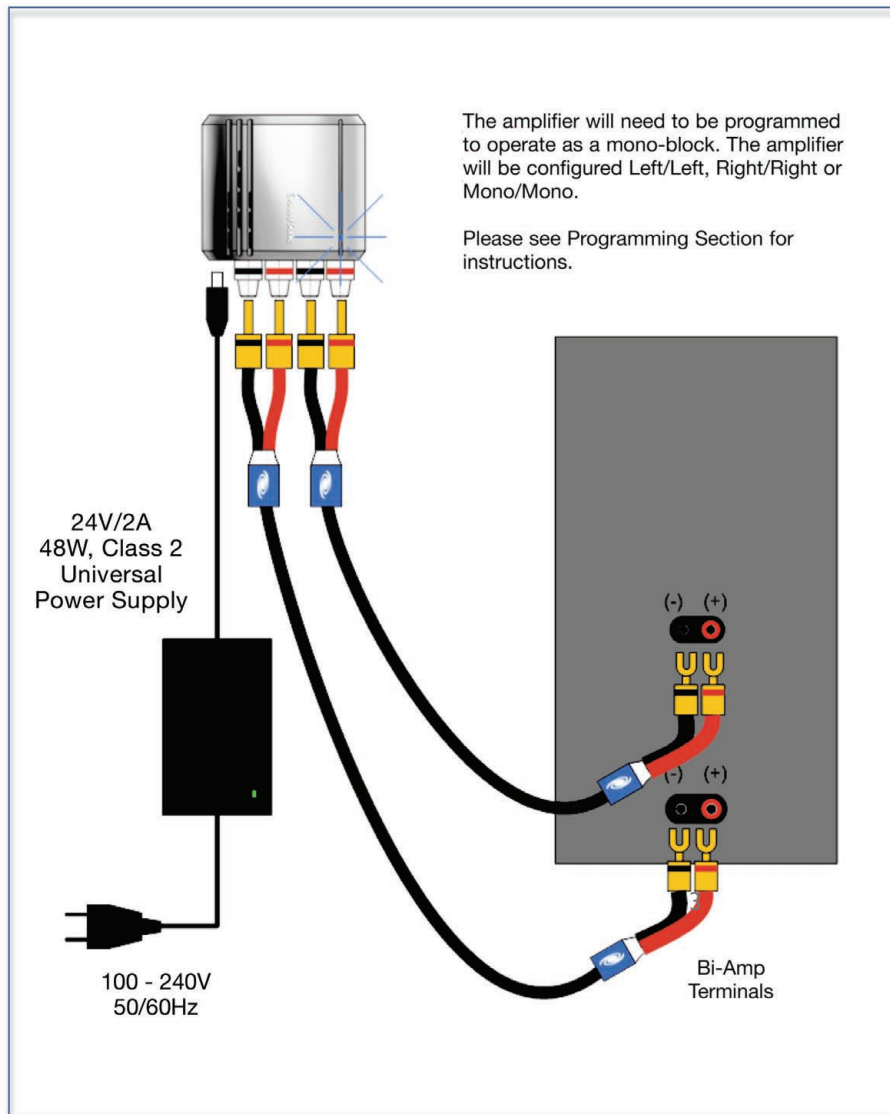
Transmitter Basic Set-up



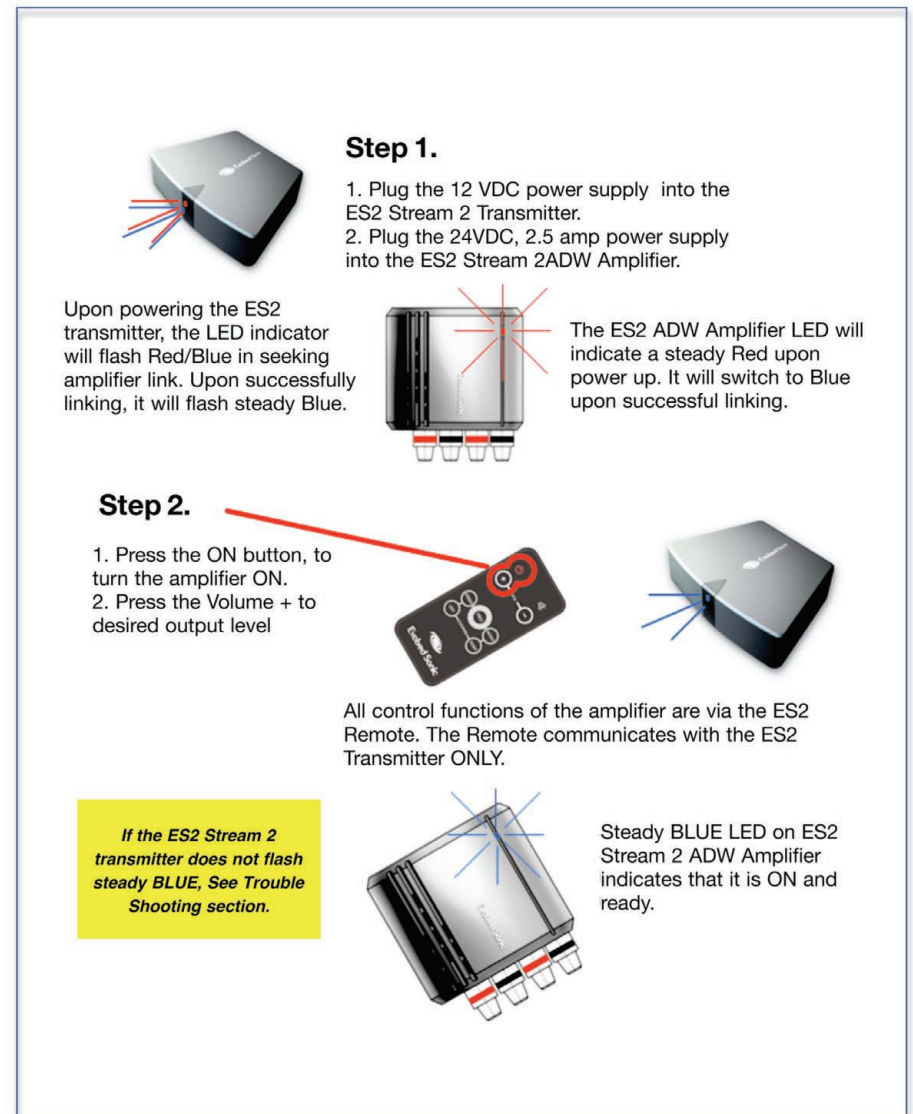
Configuration



Bi-Amp Configuration





Initial Power Up & Linking



All functions of the system are controlled through the Remote Control. There are no control functions on the ES2 Stream 2 Transmitter or ADW Amplifier.

Basic



-  On/Off - each press cycles the amplifier On or Off. Amplifier status indicated by BLUE LED.
-  Mute - each press cycles the amplifier output Mute or Un-Mute. Note amplifier status is On.
- VOL** Volume Up (+) or Down (-)

Advanced Functions

The ES2 Stream 2 product is designed with advanced functions that configure the Left and Right output channels to: (L/R), L/L, R/R and Mono/Mono.

These functions are addressed through the system programming feature "PRO."

Please see the following section titled Programming the Amplifier>

Mode	Amp Channel	
	Left	Right
Stereo	Left	Right
Left	Left	Left
Right	Right	Right
Mono	Mono	Mono



Step 1

Power up both ES2 Stream 2 Transmitter and ADW amplifier. Establish link between the two. If more than one ADW Amplifier is to be linked to the Transmitter, make sure that only the ADW Amplifier of interest is powered and linked for programming.

Step 2

Press and HOLD the "PRO" button for approximately 5 seconds until the LED flashes RED.

Step 3

Press desired MODE button: Stereo, Left/Left, Right/Right, or Mono/Mono. LED will flash from RED to BLUE confirming selection.

Step 4

Press and HOLD the "PRO" button for approximately 5 seconds until the LED flashes BLUE.

Step 5

Repeat Steps 1 - 4 for each ADW Amplifier to be programmed. Remember, only the ADW Amplifier to be programmed should be powered. All other ADW Amplifiers on the same network

Operational Configurations

Stereo - Basic Set-up, connect to appropriate line level analog source.

Hi-Fi Mono Block

Use 1 ES2 ADW amplifier on each monitor, see Bi-Amp set-up instruction. Program the Left monitor amplifier to operate in the "LEFT" mode, see Programming section. Program the Right monitor amplifier to operate in the "RIGHT" mode.

Wireless link Surround Back Channels of Home Theater System - Connect ES2 Stream 2 Transmitter to the Pre-Amp output for the Surround L/R. A second Transmitter can be connected to the Surround Rear L/R channels as well by using a different Housecode on the Transmitter and Amplifier, See Multi-Zone Set-Up section.

Commercial/Distributed

Connect the ES2 Stream 2 Transmitter to the desired analog line level source. Program each ES2 ADW Amplifier to operate in the MONO/MONO mode. This will enable a fully expandable sound system to operate within range of the Transmitter.

Multi Zone

The ES2 Stream 2 system permits up to 3 unique zones within a common RF coverage area, see Creating Multiple Zones section.

Creating Multiple Zones

ES2 Stream 2 System is capable of supporting three independent audio networks within a common broadcast zone. Thus three different audio sources can be utilized in the same common area. The Stream 2 ADW Amplifiers can be selected to link with any of the three sources.

The default setting is both the Stream 2 Transmitter and ADW Amplifier is in House Code 1. Changing the House Code is accomplished through the "LINK" button located on the bottom of the ES2 Transmitter and ADW Amplifier. Pressing the "LINK" button sequentially steps the House Code with each press:



HINT:

If setting up single transmitter, amplifier pair, establish power on link. Then step the house codes on both the transmitter and amplifier, re-establishing the link with each press.

If setting up single transmitter to multiple amplifiers, step the transmitter to the desired house code. then step each amplifier until it has established a link with transmitter.

Troubleshooting

No wireless connection

1. Make sure both the transmitter and amplifier are operating on the same house code.
2. Make sure receiver is within the broadcast range of the transmitter.

Wireless Connection, but no sound

1. Make sure the audio source is properly connected, analog line level L/R (1 Vrms max)
2. Verify Transmitter and Amplifier are operating on the same House Code.

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